

L 00904-67
ACC NR: AP6020911

Table 1.

Compound	$H_v, \text{GN/m}^2$	$H_p, \text{GN/m}^2$	$H_p, \text{GN/m}^2$	$U, \text{MJ/mole}$	$E, \text{GN/m}^2$
TiC	30.22 ± 0.61	29.88	1.57	16.66	460
ZrC	28.40 ± 0.60	29.25	3.00	14.53	355
HfC	19.43 ± 0.96	29.13	—	11.72	359
VC	19.66 ± 0.31	20.94	3.90	16.32	430
NbC	15.90 ± 0.34	19.61	3.56	13.48	345
TaC	14.20 ± 0.50	16.00	1.75	11.59	291
Cr ₃ C ₂	12.80 ± 0.33	16.50	4.06	—	—
Cr ₇ C ₃	13.00 ± 0.05	13.36	2.25	—	380
Mo ₂ C	18.67 ± 0.93	17.80	7.09	9.54	544
WC	30.28 ± 1.08	33.70	9.22	11.56	710
TiB ₂	25.82 ± 0.68	22.52	7.20	13.65	540
ZrB ₂	22.50 ± 1.57	29.00	0.92	10.63	530
HfB ₂	23.03 ± 0.22	28.00	1.75	12.06	273
VB ₂	23.50 ± 0.58	25.00	2.17	12.81	262
NbB ₂	24.75 ± 0.45	25.00	3.75	12.31	215
TaB ₂	10.10 ± 0.86	21.00	0.56	—	—
CrB ₂	20.79 ± 0.58	23.50	3.44	—	—
Mo ₂ B ₃	22.54 ± 0.84	26.63	8.00	16.41	256
W ₂ B ₅	13.59 ± 0.71	19.84	1.83	14.82	—
TiN	—	15.20	1.56	11.89	—
ZrN	—	16.40	—	15.99	—
HfN	—	15.20	3.59	14.90	—
VN	22.00 ± 0.53	13.59	5.81	13.90	—
NbN	10.45 ± 0.31	10.60	1.03	11.05	261
TaN	11.00 ± 0.89	10.93	—	9.34	263
CrN	9.51 ± 0.28	8.92	0.69	10.43	—
TiSi ₂	9.59 ± 0.21	10.63	—	—	—
ZrSi ₂	—	9.30	—	—	—
NbSi ₂	8.28 ± 0.79	9.25	0.56	11.43	—
TaSi ₂	—	10.50	—	10.43	—
CrSi ₂	—	14.07	—	9.70	—
MoSi ₂	10.01 ± 0.21	7.98	—	—	—
VSi ₂	14.86 ± 0.93	12.00	—	—	—
TaSi ₃	—	10.74	—	—	—

Orig. art. has: 2 tables and 2 graphs.
Card 2/2

SUB CODE: 11/ SUBM DATE: 13Apr65/ ORIG REF: 005 awm

Material Testing Instrument

STASOVSKIY, V.A.

Voluntary participation in efficiency promotion work. Stroil.trubo-
prov. 8 no.7:28-29 J1 '63. (MIRA 17:2)

1. Ukgazneftestroy, Kiyev.

STASTKA, F.

5

Measurement of particle size below 0.06 mm.: I, Micro-
scopical methods. V. VECERIKOVA, F. STASTKA, AND F. M.
KASLER. *Prace Ústavu Vysoké Využití Polym.* 1955, No. 5, pp.
161-16; abstracted in *J. Appl. Chem.* (London), 6 [1] i-155
(1956).—Experiments were made to assess the relative merits of
the following methods for measuring the particle size of coal and
inorganic dusts: (1) enlarging photomicrographs to 24 x 30 cm.
and measuring the particles with a paper stencil; (2) measuring
the blackening of a photographic plate with a recording photom-
eter; and (3) measuring the particle size on the screen of a pro-
jecting microscope. Methods 1 and 3 were equally suitable for
practical requirements, but method 3 is cheaper and quicker be-
cause it involves no photographic work; it is recommended for
the rapid and precise determination of particle sizes <0.06 mm.
V.R.R.

3

Row 2

STASTNA, Ema, inz.; URBAN, Karel, inz.

Determination of mechanical impurities in petroleum products.
Normalizace 11 no.7:220-221 JI '63.

1. Benzina, n.p., Praha.

STASTNA, Anna

Geomagnetic activity after passage of two different configurations of sunspot groups through central meridian of sun. Studia geophys 8 no. 2:174-181 '64.

1. Institute of Geophysics, Czechoslovak Academy of Sciences, Prague 4 - porilov, Bocni II.

MERHAUTOVA, J.; SUKOP, J.; JOACHIMSTHALER, F.; tech. spol. BARTOSOVA, S.;
JURINOVA, I.; MOLDRIKOVA, V.; STASTNA, J.; ZBUZKOVA, E.; NEMCOVA, E.

The effect of athletic education on the physical development, functional
condition and sporting performance in the youth aged 10-12 years.
Cesk. hyg. 7 no.2/3:145-152 '62.

1. Vyzkumny ustav telovychovny, Praha.
(GROWTH in inf & child) (PHYSICAL FITNESS in inf & child)
(SPORT MEDICINE) (PHYSICAL EDUCATION AND TRAINING in inf & child)

SALANSKY, Igor; KREJCI, Vladimir; STASTNA, Jitka.

Vegetative reflex changes in injuries of the soft tissues of the joint. Acta chir. orthop. traum. cech. 26 no.4:261-265 Aug 59.

1. Ustav pro vseobecnou a experimentalni patologii lekarske fakulty MU v Brne, prednosta prof. MUDr. A RNDr, Vilem Uher. Vyzkumny ustav traumatologicky v Brne, reditel prof. MUDr. Vladimir Novak.
(JOINTS, wds & inj.) (AUTONOMIC NERVOUS SYSTEM, physiol.)

STASTA, Vladimir

Modernization of machine tools during the general overhaul.
Stroj vyr ll no.5:243-245 My '63.

1. Zavodni pobočka Československé vědecko-technické společnosti,
Zavody přesného strojírenství, n.p., Gottwaldov.

DREXLER, S., Dr.; STASTNA, J., Dr.

Clinical and laboratory experience with chloramphenicol of
Czechoslovak production. *Pediat. listy*, Praha 9 no.3:135-137
May-June 54.

1. I. detska klin.; predn. prof. MUDr J.Svejcar
(CHLORAMPHENICOL, ther. use
experience in inf. & child.)

STASTNA, J., MUDr.; DREXLER, S., MUDr.; HNATEK, J., MUDr.

Epidemiology of thrush at a maternity ward. Cesk. pediat. 11 no.
7:512-515 July 56.

1. Z I. dete ke kliniky Karlovy University v Praze, predn. prof.
MUDr. J. Svejcar.

(THRUSH, epidemiology,
epidemic in maternity ward (Cz))

STASTNA, J.

The problem of staphylococcal infections from microbiologist's point of view. Cesk. pediat. 15 no.2:157-162 P '60.

1. Mikrobiologická laborator Detske fakultni nemocnice, Fakulta detskeho lekarstvi, Praha, vedouci doc. V. Kubelka.
(STAPHYLOCOCCAL INFECTIONS)

STASTNA, J.; RASKA, B.; JODL, J.

Antileucocidin and alpha-antitoxin in staphylococcal infections in children. Cesk. pediat. 17 no.5/6:536-540 Je '62.

1. Mikrobiologicke oddeleni katedry patologicke anatomie a mikrobiologie, prednosta doc. MUDr. V. Kubelka. Katedra nemocnici pediatrie, prednosta prof. MUDr. J. Svejcar.

(STAPHYLOCOCCAL INFECTIONS in inf & child)
(TOXINS AND ANTITOXINS)

STASTNA, Jaroslava; ORT, Miroslav; RASKA, Blazej

Quantitative determination of urinary microbes by the membrane filter method. Cesk. pediat. 17 no.7/8:714-718 Ag '62.

1. Bakteriologicka laborator detske fakultni nemocnice v Praze, prednosta prof. dr. V. Kubelka I. detska klinika fakulty detskeho lekarstvi KU v Praze, prednosta prof. dr. J. Svejcar.
(URINE) (BACTERIOLOGICAL TECHNIQS) (KIDNEY DISEASES)

KANKA, J.; SCHON, E.; STASTNA, J.; CEE, K.

On the etiology of lactation mastitis. Cesk. gyn. 27 [41] no.6/7:
494-501 Ag '62.

1. II. gyn.-por. klin. fak. vseob. lek. KU v Praze, predn. prof. dr.
J. Lukas, DrSc. Katedra mikrobiol. a epidemiol., vedouci prof. dr.
Fr. Patocka, DrSc. Mikrobiol. odd. fak. det. lek. KU v Praze.
(MASTITIS) (STAPHYLOCOCCAL INFECTIONS)
(PUERPERAL INFECTION)

STASINA, J.; KANKA, J.; CEE, K.; SCHON, E.

The level of staphylococcal α -antitoxin and antileukocidin in
lactation mastitis. Cas. lek. cesk. 101 no.26:822-826 29 Je '62.

1. Mikrobiologicke oddeleni fakulty detskeho lekarstvi KU v Praze,
prednosta prof. dr. V. Kubelka — II. gynekologicko-porodnicka
klinika KU v Praze, prednosta prof. dr. J. Lukas — Katedra mikrobiologie
fakulty vseobecneho lekarstvu KU v Praze, prednosta prof. dr.
F. Patocka.

(PUERPERIUM blood) (MASTITIS immunol)
(STAPHYLOCOCCAL INFECTIONS immunol)

DVORAK, M.; KONECNA, H.; STASTNA, J.

Submicroscopic structure of cells of the lymphoid tissue in the thymus. Folia morph. (Praha) 13 no.4:414-422 '65.

1. Institute of Histology and Embryology, Medical Faculty of the University of J.E. Purkyne, Brno, Czechoslovakia. Submitted January 9, 1965.

KUBELKA, V.; BLAHOVA, O.; STASTNA, J.

Therapy with pyovaccine. Cesk. pediat. 19 no.4:341-344 Ap'64

1. Ustav pro lekářskou mikrobiologii a epidemiologii fakulty
detského lékařství KU v Praze (prednosta: prof.dr. V.Kubelka)
a Katedra detské otolaryngologie fakulty detského lékařství
KU v Praze (zast. vedouci: doc.dr. J.Kloss, CSc.

*

STASTNA, J. HAUSNEROVA, S.; CEJKOVA, J.

Current status of the sensitivity of enteropathogenius E. coli serotypes to some antibiotics. Cesk. ped. 20 no.12:1071-1075 D ' 65.

1. Katedra patologické anatomie a mikrobiologie fakulty detskeho lékařství Karlovy University v Praze oddelení mikrobiologie a Mikrobiologické oddelení , Krajská hygienicko-epidemiologická stanice, v Ceskych Budejovicich (vedouci - doc. dr. V. Potuznik, CSc.).

SKALA, I.; VULTERINOVA, M.; KRONDL, A.; STASTNA, R.

Clinical picture and nutritional disorders in patients following resection of the small intestine. Rev. czech. med. 10 no.1:39-57 '64

1. Institute of Human Nutrition, Prague; director: prof. J. Masek, M.D.

*

STASTNY, Ales, dr.

New law on railroads. Zel dop tech 12 no.9:225-227 '64.

9(2)
 AUTHORS: Černohoreký, Jiří and Šťastný, Alois, Engineers CZECH/14-9-4-14/48
 TITLE: Measuring Acceleration
 PERIODICAL: Sdělovací Technika, 1959, Vol 7, Nr 4, pp 133-135 (Czechoslovakia)
 ABSTRACT: Acceleration is a very important mechanical occurrence and the task of measuring it of the greatest significance. Since the requirements of measuring acceleration and its course are various, the article aims to describe the measuring systems and some measuring equipment, consisting of a substance, a spring and eventually, an absorber. A simple instrument is sufficient for measuring the limits of acceleration. More complicated are the instruments and procedures of dynamic measuring. Upon calculating the deviation, the information obtained can be transposed to an electrical signal which is easy to elaborate further on. The most frequently used acceleration meters are described, with special attention paid to their electronic accessories. In order to measure the acceleration ✓
 Card 1/2

Measuring Acceleration

CZECH/14-~~91~~-4-14/48

tion reliably, it is necessary to gage the instruments and equipment regularly. The gaging is most frequently done on electro-dynamic vibrators. The latter and their capacity are described briefly at the end of the article. There are 10 diagrams, 2 graphs, 2 photographs and 1 table.

✓

Card 2/2

5.6180

Z/032/60/010/011/005/007

E073/E335

AUTHORS: Černohorský, J., Engineer and Štastný, A., Engineer

TITLE: Measurement of Some Mechanical Values by means of
Piezoelectrical Sensors 14

PERIODICAL: Strojírenství, 1960, Vol. 10, No. 11,
pp. 849 - 860

TEXT: First, the authors describe the basic principles of piezoelectricity, explaining the physical principles of current methods and briefly discussing the properties of SiO_2 , BaTiO_3 , seignette salt and ADP. Following that, the electric circuit of a sensor is briefly discussed and data are given on electro-metric electron tubes, including data on some Czech and Russian tubes (Table 3, Fig. 11). Accelerometers are dealt with in some detail and so are pressure gauges for measuring the pressures in the combustion spaces of piston engines. Data are included on some commercially available accelerometers produced in Great Britain, USA and Denmark. Data are also given on piezoelectric pressure gauges for measuring the pressures in combustion chambers produced by Brosa and P.E. Klein (West Germany) and SLM (Switzerland). The authors conclude their review by stating

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Z/032/60/010/011/005/007
E073/E335

Measurement of Some Mechanical Values by means of Piezo-electrical Sensors

that the most important application of piezoelectric sensors appears to be for measuring pressures during combustion processes, in rocket research, nuclear physics, during testing of explosives and for accelerometers and piezoelectric vibrators enabling calibration of sensors within a wide frequency range. There are 31 figures, 5 tables and 18 references: 5 Czech, 1 Swiss, 2 English, 4 German and 6 Soviet. /c

ASSOCIATION: Závody J. Dimitrova, n.p., Letňany
(J. Dimitrova Works, n.p., Letňany)

Card 2/2

CERNOHORSKY, J., inz.; STASTNY, A., inz.

Electrodynamic generator of mechanical vibrations. Strojirenstvi
12 no.7:529-540 JI '62.

1. Vyzkumny a zkusebni letecky ustav, Letnany.

41687
S/123/62/000/019/005/010
A006/A101

1/1690

AUTHORS: Hornsteiner, Pavel, Štastný, Antonín

TITLE: A method of pressing metallic and ceramic powders for manufacturing machine parts by means of powder metallurgy or other methods

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 19, 1962, 32, abstract 19B174P (Czechosl. Patent cl.49, v.12, no. 99618, of May 15, 1961)

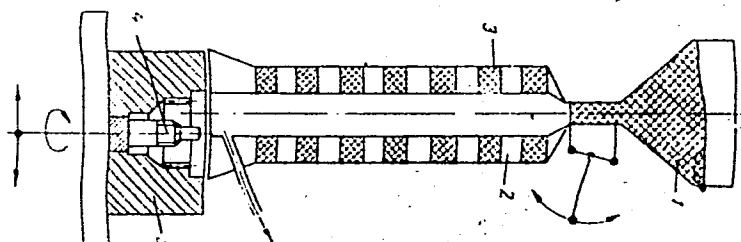
TEXT: A patent is issued for pressing powders with the use of the kinetic energy of particles, speeded up with electric, electromagnetic or other types of accelerator, instead of using static pressure. The design of a device for this purpose is presented. The schematic diagram of the device includes charging device 1, (see figure) and electromagnetic accelerator 2, consisting of a series of selenoids 3. The powder supplied in given portions from charging device 3, is accelerated by periodic current pulses to a definite speed and is delivered to cavity 4 of mold 5. Mold 5 may be fixed, or perform a reciprocating or rotary motion. The described method makes it possible to produce a uniformly pressed part. There is 1 figure.

M. Shapiro

[Abstracter's note: Complete translation]
Card 1/2

A method of pressing metallic and ceramic powders for...A006/A101

S/123/62/000/019/005/010



Card 2/2

STASTNY, B.

Impressions from the trip to the USSR. Cesk. otolaryng. 14
no.6:372-375 D '65.

STASTNY, Bohus

Advantages and disadvantages of transnasal operations of the maxillary sinus. Cesk. otolar. 5 no.6:355-358 Dec 56.

1. Z ORL oddelenia OUNZ v Levoci.
(MAXILLARY SINUS, surg.
transnasal approach, advantages & disadvantages (Cz))

STASTNY, B.

On diagnostic and therapeutic difficulties in multiple cerebellar abscess. Cesk.otolar. 9 no.2:95-99 '60.

1. Otolaryngologicke oddelenie OUNZ Levoda, prednosta MUDr.B. Stastny.
(BRAIN ABSCESS)

STASTNY, B.

A simple apparatus for the extraction of bone fragments. Cesk.
otolar.10 no.1:53-54 F '61.

1. ORL oddelenie OUNZ v Levoci, prednosta MUDr. B.Stastny.
(TEMPORAL BONE surg)
(OTORRHINOLARYNGOLOGY equip & supply)

STASTNY, B.

Contribution to cerebral abscesses of rhinogenic origin. Cesk. otolar.
10 no.2:120-122 Ap '61.

1. Otolaryngologicke oddelenie OUNZ v ~~Levici~~^{Levici}, prednosta MUDr.
B. Stastny.

(BRAIN ABSCESS etiol) (NOSE dis)

STASTNY, B.

A contribution to the etiopathogenesis of cholesteatoma of the pyramid.
Cesk. otolar. 10 no.5:300-304 0 '61.

1. Z ORL oddelenia OUNZ v Levoci, prednosta MUDr. B. Stastny.

(CHOLESTEATOMA etiol)
(MEDULLA OBLONGATA neoplasms)
(BRAIN NEOPLASMS etiol)

STASTNY, B.

On some surgical interventions on the salivary glands. Cesk. otolar.
10 no.6:352-356 D '61.

1. ORL oddeleni OUNZ v Levoci, prednosta MUDr. B. Stastny.

(SALIVARY GLANDS surgery)

STASTNY, B.

Endoscopy in children with acute laryngotracheitis. Cesk.
otolaryng. 12 no.4:236-240 Ag '63.

1. St. sanatorium v Bratislave, riaditel MUDr. J. Rusnak.
(LARYNGITIS) (TRACHEITIS) (LARYNGOSCOPY)
(BRONCHOSCOPY)

STASTNY, B.

Examination of pain in otorhinolaryngology. Cesk. otolaryng.
12 no.5:262-264 0 '63.

1. Otolaryngologická katedra Lékařské fakulty UK v Bratislave,
vedoucí doc. dr. J. Lajda.
(OTORHINOLARYNGOLOGY) (PAIN)
(ELECTROENCEPHALOGRAPHY)

STASTNY, B.

10th anniversary of the Slovakian division of the otorhino-
laryngological society. Cesk. otolaryng. 12 no.5:310-312
0 '63.

(OTORHINOLARYNGOLOGY) (SOCIETIES, MEDICAL)

STASTNY, B.

Changes in a skin transplant transferred to the middle ear.
Cesk. otolaryng. 13 no.5:300-304 0 '64.

1. ORL katedra SUDL v Bratislave, (veduci doc. dr. J. Lajda).

MOSTECKY, H.; POLANSKY, F.; STASTNY, B.

Experiences with a regional pneumonological center for diagnosing lung cancer. Cas.lek.cesk.103 no.10:264-267 6 Mr.'64.

1. II.tuberkulozni klinika fakulty vseobecneho lekarstvi KU v Praze; prednosta: doc.dr.F.Polansky.

*

STASTNY, B.

Movements of the bifurcation of the trachea and operability
of lung carcinoma. Cesk. rentgen. 18 no.3:196-202 My'64.

1. II.klinika tuberkulozy fakulty vseobecneho lekarstvi KU
v Praze; prednosta: doc.dr. F.Polansky.

*

STASTNY, B.; LICHTENBERG, J.

Contribution to the diagnosis and treatment of benign intra-bronchial tumors. Cas. lek. cesk. 104 no.3:68-71 22 Ja '65

1. II.klinika tuberkulozy fakulty vseobecneho lekarstvi Karlovy University v Praze-Veleslavine (prednosta-doc. dr. F.Polansky) a I.chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta - prof. dr. J.Pavrovsky).

MOSTECKY, H.; STASTNY, B.; VALENTOVA, VI.

Combined diagnosis of pulmonary cancer. Vnitřní lek. 11 no.6:
554-561 Je'65.

1. II. klinika tuberkulózy fakulty všeobecného lékařství
Karlovy University v Praze (prednosta: doc. MUDr. Fr. Polansky).

LICHTENBERG, J.; STASTNY, B.

Decompression of the superior vena cava with a by-pass according to the method of Schramel and Olinde. Rozhl. chir. 44 no.7:476-479 JI '65.

I. I. chirurgická klinika (prednosta prof. dr. J. Pavrovsky, DrSc.)
a II. klinika tuberkulózy (prednosta doc. dr. F. Polansky) fakulty
všeobecného lékařství Karlovy University v Praze.

STASTNY, F.

"For a better quality of paper for electric condensers." p. 212. (Papir A Celulosa. Vol. 8, no. 10, Dec. 1953. Praha.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954, Uncl.

STASTNY

F.

2

1881. STYROPOR, THE NEW KIND OF HEAT INSULATION MATERIAL. Stastny, F.
 (Kältetechnik, 1955, vol. 7, 75-78). Styropor is a thermoplastic product
 having a basis of polystyrene and containing a foaming agent. On heating to
 90-110° a porous body of 10-35 times the original volume is produced. The
 porous mouldings of the product have properties highly useful in the
 refrigeration industry, e.g., low thermal conductivity, low water vapour
 diffusion, low water absorption, etc. The two types of product Styropor P and
 K can be rendered non-flammable by coating with mortar, metal foils, water glass,
 etc., and a non-flammable type has also been introduced on the market. The
 application of the product and of the porous mouldings to the refrigeration
 industry is discussed.

Imry

MT

MA
MT

S.C.I.

STASTNY, F.

CZECHOSLOVAKIA

STASTNY, F., MD; BRAZDOVA, R., MD.

- Protective ?
1. Department of Virus and ~~Eye~~ Materials
(Odbor virovych a ockovaciich latek); 2.
Institute of Serum and Protective Materials,
Prague (for all)

Prague, Prakticky lekar, No 3, 1963, pp 89-93

"Some Present Information Regarding Epizootology and
Imunoprophylaxis of Hydrophobia."

STASTNY, F.; SIMON, J.; BRAZDOVA, R.

Contribution to the problem of the dynamics of reproduction
of fixed rabies virus in the brain of experimental animals.
Cesk. epidem. 13 no.1:1-7 Ja'64.

1. Ustav ser a ockovacich latek, Praha.

*

STASNY, F.

"Electricity in Agriculture." p. 260,
(ELEKTROTECHNIK, Vol. 9, No. 9, Sept. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

STASTNY, F.

Stastny, F. Electric plowing. p.247.

Vol. 10, no. 8, Aug. 1955 ELEKTROTECHNIK Praha, Czechoslovakia

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 2
February, 1956

STANLEY, F.

Provisional electric-power distributors for agricultural purposes.
p. 87. ELEKTROTECHNIK. (Ministerstvo strojirentsvi) Praha. Vol. 11,
no. 3, Mar. 1956.

SOURCES: East European Accessions List, Vol. 5, no. 9, September 1956

STANIM, ".

Electric insect traps. p. 91. ELEKTROTECHNIK. (Ministerstvo strojirentsvi)
Praha. Vol. 11, no. 3, Mar. 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

Stastny, F.

Use of fluorescent lamps. p. 167 ELEKTROTECHNIK. (Ministerstvo
strojirenstvi) Praha. Vol. 11, no. 5, May 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

STASTNY, F.

STASTNY, F. Semi-automatic control of hydroelectric power plants. p. 43.

Vol. 12, no. 2, Feb. 1957

ELEKTROTECHNIK

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

STASTNY, Frantisek

Self-synchronous relay PHS in the hydroelectric power plant
Vir II. Energetika Cz 11 no.1:39 Ja '61.

STASTNY, Frantisek

Verification tests of the pulse contactor IS V 23 b. Energetika
Cz 11 no.2:100 F '61.

STASTNY, Frantisek

Contact flow control devices. Energetika Cz 11 no.5:234 My '61.

STASTNY, Frantisek

A new grating cleaning machine for small hydraulic power plants.
Energetika Cz 14 no.8:386-387 Ag '64

1. Organization for Rationalization of Power Engineering Plants,
National Enterprise, Brno.

L 12961-66

ACC NR: AP6005626

SOURCE CODE: CZ/0079/65/007/002/0122/0123

AUTHOR: Sedlacek, J.; Macek, O.; Svehlova, M.; Stastny, F.

26
B

ORG: Faculty of General Medicine, Institute of Physiology

TITLE: Development of the central nervous system in pre-natal life [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 122-123

TOPIC TAGS: biologic reproduction, central nervous system, experiment animal, brain, respiratory system, neuron, neurophysiology

ABSTRACT: Three problems were studied: 1. The development of a steady potential of brain hemispheres; this was studied in chick embryos, and it was found that the polarization of the brain hemispheres increased significantly during the second half of incubation. 2. The development of high-frequency impedance of brain tissue. This was studied in guinea pig fetuses; the changes were found to be very complicated. The results were found to be close to those for new-born guinea pigs. 3. The development of activity of respiratory centers. The experiments were made on rats. Only after 21st day of foetus life was it possible to increase the respiratory rate. In young rats recording of activity of bulbar reticular neurons was not successful before the 12th day; at that age response is similar to that of

Card 1/2

2

L 12961-66

ACC NR: AP6005626

adult animals. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card

2/2 HW

SEDLACEK, J.; PACEK, O.; SUPEROVA, M.; MAJER, F.

To the development of central nervous system in pre-natal
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(LIPOPROTEINS blood)

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Research and Proteosynthesis CSAV, Prague (Laborator pro výzkum bílkovin a
proteosyntezu CSAV)

TITLE: Immuno-electrophoresis in the cerebrospinal fluid. II. Personal experience
and the importance of immuno-electrophoresis in neurology

SOURCE: Československá neurologie, no. 3, 1965, 152-158

TOPIC TAGS: biochemistry, neurology, central nervous system, pathology,
electrophysiology

ABSTRACT: 76 cerebral fluids and 54 blood sera samples were investigated; pathogenic
changes in the CNS are discussed. Mechanism of the barrier between blood and spinal
fluid is described. The inflammatory fluid syndrome is a pathophysiological phenomenon,
and it is not caused by microorganisms. Increase in lipoproteins, in albumin, and of
haptoglobulins in the fluid is discussed, and the diseases corresponding to these
facts described. Orig. art. has: 9 figures. [JPRS]

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